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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-KS-PMC-2014-15

Date: 30.04.2014

TEST REPORT

CLIENT	:	**Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.
AGENCY	:	**Sri.K.ShivaKumar,** Contractor, Bangalore.
NAME OF THE WORK	:	Providing and Laying HDPE Water Line in Brundavana Nagara Block-2 in JP Park, Ward No-17.
REFERENCE	:	EE/RRND/Wo.No/230/2013-14 Dated: 07.02.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	375 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

Note:

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Job No.: CECTC-KS-PMC-2014-15 Date : 30.04.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.

Agency : **Sri.K.ShivaKumar,** Contractor, Bangalore.

Name of Work : Providing and Laying HDPE Water Line in Brundavana Nagara Block-2 in JP Park, Ward No-17.

Reference : EE/RRND/Wo.No/230/2013-14 Dated: 07.02.2014

Date of Testing : 30.04.2014

Material : Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	78	7.80	7.80	92.2	90-100
2.36	130	13.00	20.80	79.2	75-100
1.18	125	12.50	33.30	66.7	55-90
600 Micron	200	20.00	53.30	46.7	35-59
300 Micron	217	21.70	75.00	25.0	8-30
150 Micron	180	18.00	93.00	7.0	0-10

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Job No.: CECTC-KS-PMC-2014-15

Date : 30.04.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.

Agency : **Sri.K.ShivaKumar,** Contractor, Bangalore.

Name of Work : Providing and Laying HDPE Water Line in Brundavana Nagara Block-2 in JP Park, Ward No-17.

Reference : EE/RRND/Wo.No/230/2013-14 Dated: 07.02.2014

Date of Testing : 30.04.2014

Material : 40mm Aggregates

Total wt. of aggregates in gms = **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	300	2.00	2.00	98.00	95-100
20	8532	56.88	58.88	41.12	30-70
10	3432	22.88	81.76	18.24	10-35
4.75	2278	15.19	96.95	3.05	0-5

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Job No.: CECTC-KS-PMC-2014-15 Date : 30.04.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.

Agency : **Sri.K.ShivaKumar,** Contractor, Bangalore.

Name of Work : Providing and Laying HDPE Water Line in Brundavana Nagara Block-2 in JP Park, Ward No-17.

Reference : EE/RRND/Wo.No/230/2013-14 Dated: 07.02.2014

Date of Testing : 30.04.2014

Material : 20mm Aggregates

Total wt. of aggregates in gms = **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	202	4.0	4.0	96.0	95-100
10	2715	54.3	58.3	41.7	25-55
4.75	1687	33.7	92.1	7.9	0-10

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Job No.: CECTC-KS-PMC-2014-15 Date: 30.05.2014

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Contractor : **Sri.K.ShivaKumar,** Contractor, Bangalore.

Name of the work : Providing and Laying HDPE Water Line in Brundavana Nagara Block-2 in JP Park, Ward No-17.

Reference : EE/RRND/Wo.No/230/2013-14 Dated: 07.02.2014

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.05.2014	30.05.2014	8.206	509.6	22.65
2	02.05.2014	30.05.2014	8.170	523.5	23.27
3	02.05.2014	30.05.2014	8.193	529.4	23.53

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Job No.: CECTC-KS-PMC-2014-15 **Date:** 03.06.2014

Aggregate Impact Value
IS: 2386 Part IV

Client	**Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
Agency	**Sri.K.ShivaKumar,** Contractor, Bangalore.
Name of the Work	Providing and Laying HDPE Water Line in Brundavana Nagara Block-2 in JP Park, Ward No-17.
Reference	EE/RRND/Wo.No/230/2013-14 Dated: 07.02.2014
Location	At Site
Type of Mix	Wet Mix macadam
Date of Testing	03.06.2014

Sl No.	Details	Trial No. 1	Trial No. 2	Trial No. 3	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	378	386	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	88	86	84	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	292	292	302	
4	Aggregate Impact value = percent fines $100^* (W_2/W_1)\%$	23.16	22.75	21.76	22.56

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

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